FIG. 1(A)

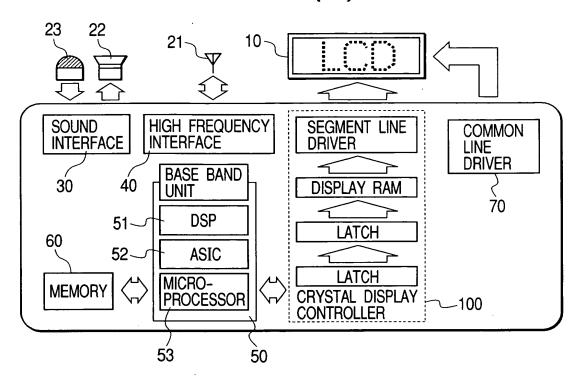
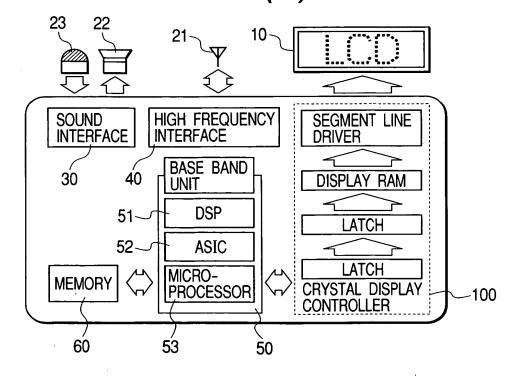
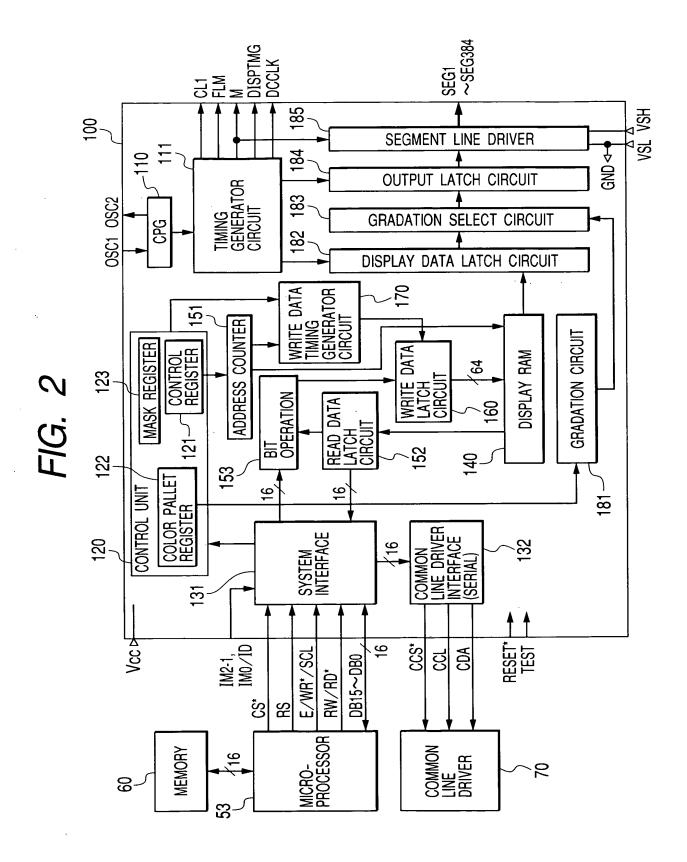


FIG. 1(B)







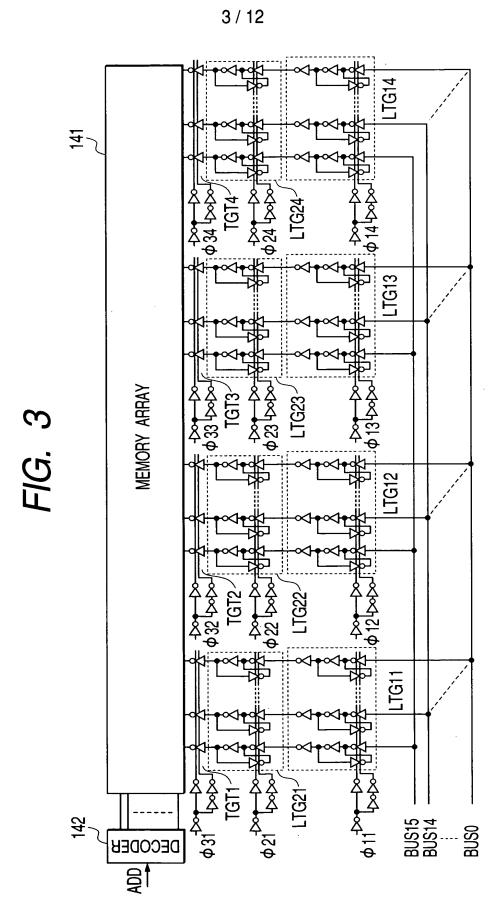
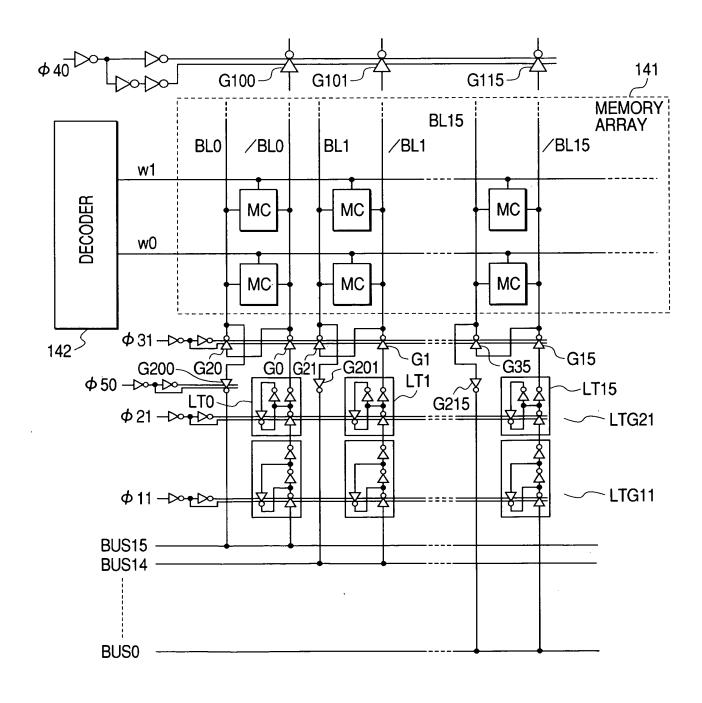
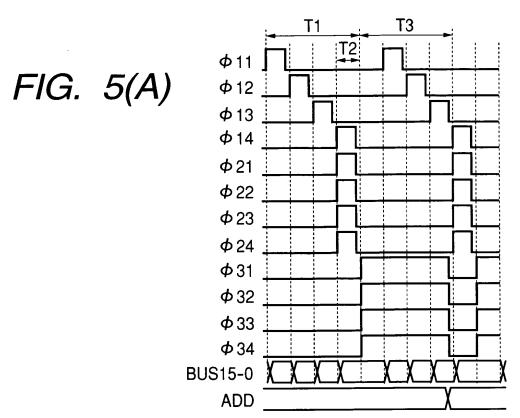


FIG. 4







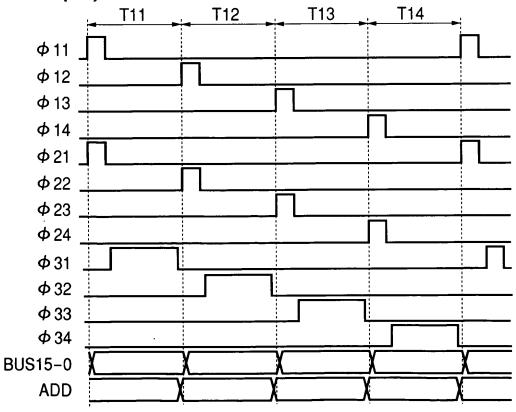


FIG. 6(A)

UNIT C	F BL	JRST	WRITE
--------	------	------	-------

1 LINE	\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007	•••	\$003F
2 LINE	\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107	•••	\$013F
3 LINE	\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207	•••	\$023F
128 LINE	\$7F00	\$7F01	\$7F02	\$7F03	\$7F04	\$7F05	\$7F06	\$7F07	• • •	\$7F3F
!		-								
168 LINE	\$A700	\$A701	\$A702	\$A703	\$A704	\$A705	\$A 706	\$A707	•••	\$A73F
256 LINE	\$FF00	\$FF01	\$FF02	\$FF03	\$FF04	\$FF05	\$FF06	\$FF07	•••	\$FF3F

FIG. 6(B)

	DUMMY	/ 	WRITE	DATA		DUN	MMY DA	TA		
1 LINE	\$0000	\$0001	\$0002	\$0003	\$6004	\$0005	\$0006	\$0007	•••	\$003F
2 LINE	\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107	•••	\$013F
3 LINE	\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207	•••	\$023F
128 LINE	\$7F00	\$7F01	\$7F02	\$7F03	\$7F04	\$7F05	\$7F06	\$7F07	•••	\$7F3F
ł ! !										
168 LINE	\$A700	\$A701	\$A702	\$A703	\$A704	\$A705	\$A706	\$A707	•••	\$A73F
256 LINE	\$FF00	\$FF01	\$FF02	\$FF03	\$FF04	\$FF05	\$FF06	\$FF07	•••	\$FF3F

FIG. 7(A)

i) rewrite area : In New 4 Words writing, a write address begins from the Multiple of 4.

 \$0000
 \$0001
 \$0002
 \$0003
 \$0004
 \$0005
 \$0006
 \$0007

 \$0100
 \$0101
 \$0102
 \$0103
 \$0104
 \$0105
 \$0106
 \$0107

 \$0200
 \$0201
 \$0202
 \$0203
 \$0204
 \$0206
 \$0206
 \$0207

₩		$\frac{\circ}{-}$	
NUMBER OF TIMES FOR WRITING TO LATCHES:4 TIMES	(1) (2) (3) (4)		

SNCE

FIG. 7(B)

ii) rewrite area: In New 8 Words writing, a write address begins from the multiple of 4.

\$0000\$0001\$0002\$0003\$0004\$0005\$0006\$0007\$0100\$0101\$0102\$0103\$0104\$0105\$0106\$0107\$0200\$0201\$0202\$0203\$0204\$0205\$0206\$0207

RAM	TWICE	
NUMBER OF TIMES FOR WRITING TO LATCHES:8 TIMES	(1) (2) (3) (4) (5) (6) (7) (8)	

7/12

FIG. 7(C)

iii) rewrite area : when it writes in a different line Every 4 words, each write address Begins from the multiple of 4.

0000\$	\$0001 \$0005	\$0005	\$0003	\$0004	\$0002	9000\$	\$0007
100	\$0100 \$0101 \$0102	\$0102	\$0103	\$0103 \$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0205	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR WRITING TO LATCHES:8 TIMES

ב ב		TWICE	
5	(4)	8	
2	(3)	(2)	
5	(2)	(9)	
	$\widehat{\exists}$	(2)	

RAM

The fight face that have the first the face that the face that the first face the face that the face

FIG. 8(A)

i) rewrite area: In New 3 words writing, a write address does not begin from the multiple of 4.

\$0007	\$0107	\$0207
9000\$	\$0106	\$0206
\$0005	\$0105	\$0202
\$0004		\$0204
\$0003	\$0103	\$0203
\$0002 \$0003	\$0100 \$0101 \$0102 \$0103 \$0104	\$0202
\$0001	\$0101	\$0201
20008	\$0100	\$0200

RAM		ONCE	
TIMES			
OF TIMES FOR TO LATCHES: 4			
AEG ATC	(4)		
등은	(3)		
NUMBER VRITING	<u>(2</u>		
	\equiv		

FIG. 8(B)

ii) rewrite area : In New 4 Words writing, a write address does not begin from the multiple of 4.

			1				
1800081	\$0001	\$0005	£000\$	\$0004	\$000\$	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$010	\$0106	\$0107
\$0200	\$0201	\$0205	\$0203	\$0204	\$020\$	\$0206	\$0207

NUMBER OF TIMES FOR WRITING TO LATCHES:8 TIMES

8	
(7)	
(9)	
(2)	
<u>(4)</u>	
<u>(C)</u>	
(5)	
E	

TWICE

FIG. 8(C)

iii) rewrite area : when it writes in a different Line Every 6 Words, each write address Does not begin from the multiple

12000\$/	180507	\$0207
9000\$	\$0105 \$0106	\$0206
\$ 2000\$	\$0105	\$0202
\$0004	\$0104	\$0204
\$ 80003	\$0103	\$0203
\$000	\$0101 \$0102	\$0205
\$0001	\$0101	\$0201
20008	86106	\$0200

	(8)
IMES	(7)
R 16 T	(9)
S FOR HES:1	(2)
ATC	(4)
유 기	(3)
ER ING ING	(2)
NEW MEN	$\widehat{\Xi}$

RAM	4 TIMES						
	(8)	(16)					
IMES	(7)	(15)					
16 T	(9)	(14)					
上 上 子	(2)	(13)					
LATCHES: 16 TIMES	(4)	(12)					
0	(8)	(11)					
VRITING 1	(2)	(10)					
WRIT	(1)	6)					

FIG. 9(A)

	WRITE START ADDRESS			MASK AMOUNT FOR END SIDE		
•	WSA	SMW	WEA	EMW		

FIG. 9(B)

	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	000A	000B
CASE 1								0			0	
CASE 2	-											-
CASE 3	-	-						_			-	-
CASE 4	_	_	-						0		-	-
	– MA	SK PC	RTION		 							

FIG. 9(C)

	WSA	SMW	WEA	EMW
CASE 1	0000	00	000B	00
CASE 2	0001	01	000A	01
CASE 3	0010	10	0009	10
CASE 4	0011	11	0008	11

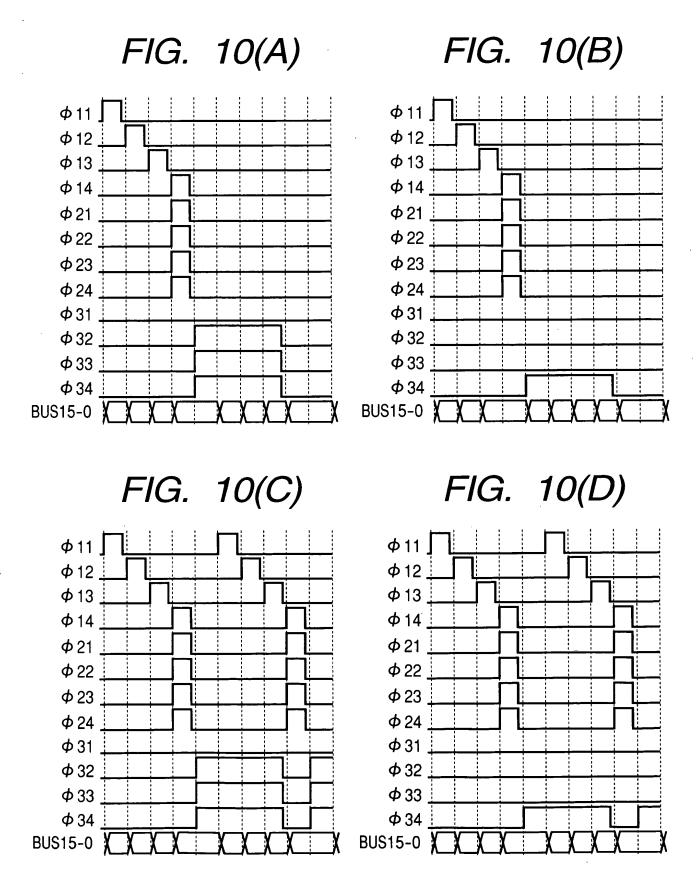


FIG. 11

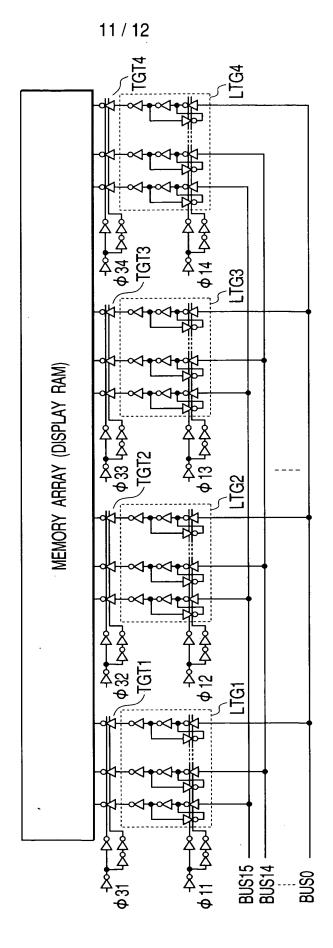


FIG. 12

